

UPRN	1000778256312
LPI KEY	90511000049106
LOGICAL STATUS	1 (Approved)
SAO TEXT	Flat 7
PAO TEXT	Hall Court
OFFICIAL FLAG	Y



Ordnance Survey

# OS PLACES

User guide and  
technical specification

# OS Places

## User guide

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v1.5 – 03/2015

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## Preface

This user documentation is designed to provide an overview of the Capture and Verification, Matching and Cleansing, and GeoSearch Service products giving technical specifications and guidelines on how to optimally use them. It assumes a general knowledge of geographic information. If you find an error or omission in this guide, or otherwise wish to make a comment or suggestion as to how we can improve the guide, please contact us at the address shown below under contact details or complete the product and service performance report form at [annexe A](#) and return it to us.

## Contact details

Our Customer Service Centre will be pleased to deal with your enquiries:

Customer Service Centre  
Ordnance Survey  
Adanac Drive  
SOUTHAMPTON  
SO16 0AS

General enquiries (calls charged at local rate): +44 (0)3456 050505  
Dedicated Welsh Language HelpLine: 03456 050504  
Textphone (deaf and hard of hearing users only please): +44 (0)23 8005 6146  
[customerservices@os.uk](mailto:customerservices@os.uk)

or visit the Ordnance Survey website at: [www.os.uk](http://www.os.uk)

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## Using this guide

The documentation is supplied in portable document format (PDF) only. Free Adobe® Reader® software, which displays the guide, incorporates search and zoom facilities and allows you to navigate within. Hyperlinks are used to navigate between associated parts of the guide and to relevant Internet resources by clicking on the blue hyperlinks and the table of contents.

If you are unfamiliar with any words or terms used and require clarification please refer to the [glossary](#) at the end of the document.

## Chapter 1 OS Places introduction

OS Places is the brand for a range of **data querying** service products and developer tools that will enable customers to accomplish business tasks.

They are:

- 1 **Capture and Verification** – a service product that is intended for client side events and activities, for example, address form filling.
- 2 **Matching and Cleansing** – a service product that is intended for server-side activities, for example, cleansing addresses in databases.
- 3 **GeoSearch** – a service product that is intended to enable address queries based on geographical information, for example, return the addresses in a bounding box.

They are intended to make queries to the database faster and simpler, while retaining all the data found within the AddressBase® Premium dataset. The service is based on a RESTful API service with API key authentication, allowing the API to be called with the correct URL structure, a query and an API key.

### AddressBase Premium

AddressBase Premium provides the most detailed view of an address and its life cycle. It has more records than other AddressBase products as it provides all the information relating to an address or property from creation to retirement. It contains local authority, Ordnance Survey and Royal Mail® addresses, current (approved) addresses, and alternatives for current addresses (reflecting differences in versions of addresses in current use), provisional addresses (proposed planning developments) and historic information for each address, where available, plus OWPA's and cross references to the OS MasterMap® TOIDs®.

#### Information source

##### Local Land and Property Gazetteer

AddressBase Premium contains data provided by the creating authorities' local custodian including information captured under statutory obligation through the SNN process. This provides address data early in the property life cycle and is underpinned by the UPRN.

##### One Scotland Gazetteer

AddressBase Premium contains data provided by the creating authorities' local custodian including information captured under statutory obligation through the SNN process. This provides address data early in the property life cycle and is underpinned by the UPRN.

##### Ordnance Survey

Ordnance Survey brings together cross references to large-scale data, such as OS MasterMap Topography Layer and Integrated Transport Network™ Layer via the TOID. Ordnance Survey provides additional objects without postal addresses as well as verifying each address' coordinate position via Ordnance Survey's surveyors.

##### Royal Mail

Royal Mail provides the Postcode Address File (PAF®), which provides the UDPRN and the delivery point address record.

##### Valuation Office Agency (VOA)

VOA provides cross references to council tax (CT) and non-domestic rates (NDR) records.

## Explanation of AddressBase Premium

Product name	AddressBase Premium
Features	<ul style="list-style-type: none"><li>• UPRN</li><li>• Royal Mail Postcode Address File</li><li>• National Grid coordinates</li><li>• References to OS MasterMap address TOID</li><li>• Four levels of classification</li><li>• Feature life cycle dates</li><li>• Local authority addresses</li><li>• OWPA</li><li>• Multiple occupancy addresses</li><li>• Local authority streets</li><li>• USRN</li><li>• Street start and end coordinates</li><li>• References to all OS MasterMap TOIDs</li><li>• Parent/child relationships</li><li>• Alternative addresses</li><li>• Provisional addresses</li><li>• Historical addresses</li></ul>

## Unique Property Reference Number (UPRN)

The UPRN is the persistent key identifier providing consistency across the AddressBase products range.

Excluding addresses in Northern Ireland, each address record has a UPRN, which provides a reference key to join related address records across different datasets.

Throughout its life cycle, information on the address of a property can change. This may be due to a change of name, change of use, such as from single occupancy to multiple occupancies or the eventual demolition of the property. All of these historic, alternative and provisional addresses are recorded against the same UPRN.

## API access and requirements

The Matching and Cleansing, and Capture and Verification service products use the same URL. To access the API, the URL required is:

<https://api.ordnancesurvey.co.uk/places/v1/addresses/>

After the URL above has been entered, follow the URL with the resource you intend to use; for example, find. Using the API key consists of amending the parameter 'key' followed by your API key to the query over a HTTPS connection.

## Northern Ireland Addresses

OS Places contains addresses located within Northern Ireland; however they have a few unique characteristics due to not being derived from Address Base Premium. Addresses within Northern Ireland will not have a UPRN or status, and coordinates will be '0.0' due to falling outside of the British National Grid.

## Developer Portal

In order to use the service, the user has to register an account in the Developer Portal. Once this has been done, the user must accept the terms and conditions of the service, which will then present the user one of three trial packages – Matching and Cleansing, Capture and Verification, and GeoSearch, details of which can be seen below:

Product	Matching and Cleansing
Resources	Match
Package name	Matching and Cleansing trial
Service plan name	2,000 transaction
Max number of transactions	2,000
Period of agreement	Two months

Product	Capture and Verification
Resources	Find, postcode and UPRN
Package name	Capture and Verification trial
Service plan name	10,000 transactions
Max number of transactions	10,000
Period of agreement	Two months

Product	GeoSearch
Resources	Nearest, BBOX and Radius
Package name	GeoSearch trial
Service plan name	1,000 transactions
Max number of transactions	1,000
Period of agreement	Two months

To obtain the necessary API key, the user creates an App within the Developer Portal.

At the end of the calendar month in which the user has purchased their plan, the user will receive an invoice for the service. Plans automatically renew after 12 months, or when the limit is consumed – through the Developer Portal the user is able to view their usage statistics for the service.

## Chapter 2 OS Places service products

OS Places has three service products available which are collections of different resources:

- Matching and Cleansing:
  - Match resource
- Capture and Verification:
  - Find resource
  - Postcode resource
  - UPRN resource
- GeoSearch:
  - Nearest resource
  - Bounding Box resource
  - Radius resource

**Important:** depending on how the GET requests from the client application are handled, or how auto-complete libraries are configured, this can result in frequent transactions to the service. If intended, frequent calls can be made, which could aid the user experience, but please be aware that ultimately it is the developer who is in control of the frequency to which the service is accessed and each query to the service will be billed as a standard transaction.

### Matching and Cleansing

Matching and Cleansing provides the match resource. This resource is intended to be a more accurate and intensive search than the find query and therefore requires a more accurate query to return a result, as well as taking more time to retrieve a result from the service than the find resource found in Capture and Verification. The intention of the match resource is for it to be used on back-end functions of address databases, such as cleansing an already-populated database, providing uniformity to the database entries.

BUILDING_NUMBER	COMPANY_NAME	STREET_NAME	AREA	POST_TOWN	POSTCODE
4		ADANAC DRIVE		SOUTHAMPTON	SO160AS
	ORDNANCE SURVEY		NURSLING	SOUTHAMPTON	SO160AS
4	ORDNANCE SURVEY	ADANAC DRIVE	NURSLING		

The above table demonstrates partial entries into a database. When the existing addresses in the database are passed through as the query for the match resource, the correct, full address is returned:

BUILDING_NUMBER	COMPANY_NAME	STREET_NAME	AREA	POST_TOWN	POSTCODE
4	ORDNANCE SURVEY	ADANAC DRIVE	NURSLING	SOUTHAMPTON	SO160AS



## Capture and Verification

Capture and Verification provides three resources. The find resource is intended to be a fast address lookup service for front-end functions, such as populating address forms in a consistent manner. Examples of such uses would be autocomplete address forms:

Enter Address:

ordnance survey, 4, adanac drive, southampton

ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16 0AS

COMPASS HOUSE, SO16 4BY

ORDNANCE SURVEY, 20, CANON STREET, TAUNTON, TA1 1SW

ORDNANCE SURVEY, UNIT 9, ECKLAND, DESBOROUGH ROAD, MARKET HARBOROUGH, LE16 8HB

ORDNANCE SURVEY, TECHNOLOGY CENTRE, JAMES WATT AVENUE, EAST KILBRIDE, GLASGOW, G75 0QD

Line 2:

Street:

Organisation:

Town/City:

Area:

Postcode:

PO Box:

Status:

Dataset:

Submit

The postcode resource is intended to be a quick lookup for addresses within a postcode area, with either a full or partial postcode as the query. UPRN is a specific search based on the UPRN of a property, and therefore will only return one result for each dataset that contains a match due to the nature of a UPRN.

## GeoSearch

GeoSearch provides three resources that allow queries to be made using geographic information, such as points and bounding boxes. The nearest resource returns the address closest to a set of British National Grid (BNG) coordinates. The bounding box resource returns all the addresses within a bounding box, and the radius search returns all the addresses within a radius of a given point. Due to Northern Ireland addresses being outside of BNG, GeoSearch is not available for addresses in Northern Ireland.

## Chapter 3 Support

The OS Places service is available 24/7, with telephone support from 8.30 am to 5.30 pm, Monday to Friday, direct to the Ordnance Survey Customer Service Centre.

### Availability and service parameters

Service levels	OS Places
Service availability	99.9%
Planned maintenance	8.00 am–12.00 pm Sundays and 11.00 pm–3.00 am business days Four days' notice is provided for planned maintenance

### Access to help

Ordnance Survey provides telephone support for queries on service availability, subscription and technical information about the service itself from 8.30 am to 5.30 pm, Monday to Friday, through the Customer Service Centre. [Contact details](#) can be found in the preface to this guide.

For assistance on setting up and using a client to access the service, customers are urged to contact their system supplier and their IT security manager. The IT security manager is likely to be responsible for and understand firewall and IT security protocols, so is likely to be able to offer advice on an optimal solution for accessing and onward managing of the OS Places service.

# Annexe A      **Product and service performance report form**

Ordnance Survey welcomes feedback from its customers about OS Places.

If you would like to share your thoughts with us, please print a copy of this form and when completed post or fax it to the address below.

Your name: .....

Organisation: .....

Address: .....

.....

.....

Postcode: .....

Phone: .....

Fax: .....

Email: .....

Quotation or order reference: .....

Please record your comments or feedback in the space below. We will acknowledge receipt of your form within three (3) working days and provide you with a full reply or a status report within 21 working days.

If you are posting this form, please send it to:

OS Places Product Manager, Ordnance Survey, Adanac Drive, SOUTHAMPTON, SO16 0AS.

If you wish to return it by fax, please dial 023 8005 6159.

Any personal information that you supply with this report form will be used by Ordnance Survey only in the improvement of its products and services. It will not be made available to third parties.

# OS Places

## Technical specification

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# Introduction

## Purpose of this specification and disclaimer

This is the technical specification (hereafter referred to as the specification) applicable to the Capture and Verification and Matching and Cleansing Service products (hereafter referred to as the product), which is referred to in the Framework Direct Licence, Specific Use Framework Partner Licence or your other customer contract for the product.

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## Chapter 1 Overview

This section describes how to access the service products, best practices for using it and expected behaviour of the service. The service products described in this documentation are RESTful API services that enables users to perform Internet-based search queries against services that use the AddressBase Premium dataset, receiving back relevant address information for both internal and external applications. The product is intended to provide a flexible and uncomplicated method with which to accomplish specific tasks.

The service is intended to be a quick and efficient way to access the information held within the AddressBase Premium product, via an https GET request. When a sufficient request is made to the service, either a JSON or XML reply will be returned, containing the results of the request.

Service responses are fully cacheable, with caching supported via the HTTP ETag and Last-Modified date headers. When updates are made to the underlying datasets, the values of these headers are automatically updated, meaning that clients can easily revalidate locally cached results using Conditional GET requests via the If-None-Match and/or If-Modified-Since headers. A Conditional GET request will return a 304 status to indicate that no changes have been made to the underlying data and previously cached results are still valid. If the search index has been updated then a 200 response will be served along with the requested results.

Conditional GET requests are faster to serve than the alternative, which involves re-running the search on the server and then re-processing the full results on the client. Clients are therefore encouraged to make use of this facility to improve overall performance from the product.

The service has the functionality to be able to check the DPA – Royal Mail information and/or the LPI – local authority information dataset.

Northern Ireland addresses are within the DPA dataset and contain an empty string for the UPRN and status fields, and the X/Y coordinates are 0.0 due to being outside of the British National Grid. GeoSearch is unavailable for Northern Ireland addresses, as well as the UPRN resource within Capture and Verification.

Where applicable, queries to the service can be made in English, Welsh or Gaelic.

The service will respond in either XML or JSON format, with JSON being the default format.

### RESTful API

A RESTful API is a service with which users can make different requests can be made to a server and the resources it hosts, extracting relevant results when applicable. The call is done via a https request. The product supports GET requests as well as OPTIONS requests, while also allowing caching via the HTTP ETag and Last-Modified date headers.

### AddressBase Premium

AddressBase Premium is an Ordnance Survey addressing product that contains information relating to an address or property from creation to retirement. It contains local authority, Ordnance Survey and Royal Mail addresses structured in a relational database model. Each address is assigned a Unique Property Reference Number (UPRN).

### DPA and LPI

It is possible to search the Delivery Point Address (DPA) and/or Local Property Identifier (LPI) databases for records of the queried address:

- DPA** A Delivery Point address is defined as a property that receives deliveries from Royal Mail, including addresses within Northern Ireland.
- LPI** A Local Property Identifier is a structured text entry that identifies a Basic Land and Property Unit (BLPU). A BLPU is defined as a real-world object that is an 'area of land, property or structure of fixed location having uniform occupation, ownership or function' and does not need to receive deliveries from Royal Mail to exist.

Depending on the dataset chosen, the output will vary.

## API resources and parameters

The address matching parameters are the inputs possible for the product, comprising of mandatory and optional inputs over four resources. Resources are the function by which the inputs will be ran against. The seven resources are:

- **Find** – matches a full or partial address (text string).
- **Match** – matches a full or partial address (text string) with more precision than the find resource.
- **UPRN** – returns address attributes based on a UPRN.
- **Postcode** – returns address attributes based on a postcode.
- **Nearest** – returns the nearest address to a set of BNG coordinates.
- **Bounding Box** – returns all the addresses within a bounding box.
- **Radius** – returns all the addresses within the radius of a given point.

The parameters and values required for the service are not case sensitive.

## URI encoding

Please be aware that when sending a query to the service, if the query contains reserved special characters please encode the query according to standard percent-encoding procedures for a URI. The list of reserved characters can be located here:

<http://tools.ietf.org/html/rfc3986#section-2.2>

Examples of URI encoding can be found below.

### Javascript URI Encoding

```
var query = "ordnance survey, 4, Adanac drive, nursling, Southampton";
var encodeUri = encodeURIComponent(query);
```

### PHP URI Encoding

```
$query = "ordnance survey, 4, Adanac drive, nursling, Southampton";
$encodeUri = rawurlencode($query);
```

## Service metadata

Each request made contains metadata about the request in the header of the response. This information includes the URI, the string that was queried, the format requested and other information:

<b>uri</b> (char)
The unique resource identifier
<b>Multiplicity:</b> 1
<b>query</b> (char)
Decoded query string

<b>Multiplicity: 1</b>
<b>offset</b> (integer)
The offset requested
<b>Multiplicity: 0..1</b>
<b>totalresults</b> (integer)
Total number of results found
<b>Multiplicity: 1</b>
<b>format</b> (char)
Requested format
<b>Multiplicity: 1</b>
<b>dataset</b> (char)
Datasets requested
<b>Multiplicity: 1</b>
<b>lr</b> (char)
The language requested
<b>Multiplicity: 0..1</b>
<b>maxresults</b> (integer)
Maximum number of results requested
<b>Multiplicity: 0..1</b>
<b>epoch</b> (char)
A version reference for the Data product
<b>Multiplicity: 1</b>

Below is an example of the metadata from a find resource request, returned in JSON format:

```

"header" : {
  "uri" : "https://api.ordnancesurvey.co.uk/places/v1/addresses/
find?query=ordnance%20survey&key=[INSERT_USER_API_KEY_HERE]",
  "query" : "query=ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON,
SO16 0AS",
  "offset" : 0,
  "totalresults" : 2678569,
  "format" : "JSON",
  "dataset" : "DPA",
  "lr" : "EN,CY",
  "maxresults" : 100,
  "matchprecision" : 1,
  "epoch" : "29"
}

```



## Service HTTP codes

Depending on the query made to the service, different response codes will be sent. A successful request will result in a code of 200 being returned, whereas a request with incorrect syntax will respond with a code of 400. Below is a table comprising of the different HTTP response codes:

Code	Description
200	Request has been successful.
304	Not Modified. In response to a conditional GET request this response indicates that the underlying data has not changed since the previous request, and cached results may be re-used.
400	Bad request, for example, missing query parameter, malformed syntax.
401	Unauthorized – the client has not provided authentication or incorrect authentication.
404	The server has not found anything matching the Request-URI.
405	Method not allowed. Request used an unsupported HTTP method, for example, DELETE or PUT.
500	Generic internal server error.

Below are examples of returned error codes:

### Incorrect resource:

```
{
  "error" : {
    "statuscode" : 404,
    "message" : "Resource maatch does not exist. Valid resources are match,
find, uprn, postcode."
  }
}
```

### No query parameter set:

```
{
  "error" : {
    "statuscode" : 400,
    "message" : "No query parameter provided."
  }
}
```

### Non-existent parameter given:

```
{
  "error" : {
    "statuscode" : 400,
    "message" : "Parameter daataset is not a valid parameter for resource find.
Valid parameters for requested resource are query, format, dataset, maxresults,
offset."
  }
}
```

### Bounding box exceeds 1km<sup>2</sup>:

```
{
  "error": {
    "statuscode": "400",
    "message": "Requested bbox must be less than 1km2. Requested BBox was
400000,100000,500000,600000."
  }
}
```

### Radius request is above the maximum radius of 1 km:

```
{
  "error": {
    "statuscode": "400",
    "message": "Radius must be less than or equal to 1km. Requested Radius was
radius."
  }
}
```

## Chapter 2 Matching and Cleansing resource

### Match resource

The match resource is more accurate than the find resource, but is stricter on which addresses are matched. Like the find resource, it uses a free text search based on the query parameter. Both the DPA and LPI datasets can be searched.

To effectively use the match resource, a relatively complete address is required – searching for only the first line of an address will not be adequate to get results from the service and the search query is too ambiguous. Such searches are better suited for the find resource.

### Parameters

<b>query</b> (Mandatory: char)
The free text search parameter.
<b>format</b> (optional: char)
The format the response will be returned in. Default value is <code>JSON</code> .
<b>Valid values:</b> <code>xml</code> , <code>json</code>
<b>maxresults</b> (optional: integer)
The maximum number of results to return. Default is 100.
<b>Valid values:</b> 1–100
<b>offset</b> (optional: integer)
Offset the list of returned by this amount.
<b>dataset</b> (optional: char)
The dataset to return – <code>DPA</code> and/or <code>LPI</code> . Multiple values can be sent, separated by a comma. Default is <code>DPA</code> .
<b>Valid values:</b> <code>DPA</code> , <code>LPI</code>
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to <code>DPA</code> dataset. Default value is both languages.
<b>Valid values:</b> <code>EN</code> , <code>CY</code>
<b>matchprecision</b> (optional: integer)
The decimal point position at which the match score value is to be truncated.
<b>Valid values:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

### Example requests

#### Basic Match query request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/match?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE,%20NURSLING,%20SOUTHAMPTON,%20SO16%20AS&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/match?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE,%20NURSLING,%20SOUTHAMPTON,%20SO16%20AS&key=[INSERT_USER_API_KEY_HERE])

API Components	Description
<a href="https://api.ordnancesurvey.co.uk/places/v1/addresses/">https://api.ordnancesurvey.co.uk/places/v1/addresses/</a>	OS Places URL.
<code>match?</code>	Resource being requested.

query=	Free text search parameter.
&key=	User API authentication key

### Output:

```
{
  "header" : {
    "uri" :
    "https://api.ordnancesurvey.co.uk/places/v1/addresses/match?query=ORDNANCE%20SURVEY%2C%204%2C%20ADANAC%20DRIVE%2C%20NURSLING%2C%20SOUTHAMPTON%2C%20SO16%200AS",
    "query" : "query=ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16 0AS",
    "offset" : 0,
    "totalresults" : 15,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 100,
    "matchprecision" : 1,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16 0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
      "RPC" : "2",
      "X_COORDINATE" : 437318.0,
      "Y_COORDINATE" : 115539.0,
      "STATUS" : "APPROVED",
      "LOGICAL_STATUS_CODE" : "1",
      "CLASSIFICATION_CODE" : "CO01GV",
      "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
      "LOCAL_CUSTODIAN_CODE" : 1760,
      "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
      "POSTAL_ADDRESS_CODE" : "S",
      "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
      "BLPU_STATE_CODE" : "2",
      "BLPU_STATE_CODE_DESCRIPTION" : "In use",
      "TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
      "LAST_UPDATE_DATE" : "01/09/2010",
      "ENTRY_DATE" : "01/09/2010",
      "BLPU_STATE_DATE" : "01/09/2010",
      "MATCH" : 1.0,
      "MATCH_DESCRIPTION" : "EXACT"
    }
  }, {
    "DPA" : {
      "UPRN" : "200000699027",
      "ADDRESS" : "4, LUKIN DRIVE, NURSLING, SOUTHAMPTON, SO16 0TN",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "LUKIN DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0TN",
      "RPC" : "2",
      "X_COORDINATE" : 437505.0,
```

```
"Y_COORDINATE" : 116503.0,  
"STATUS" : "APPROVED",  
"LOGICAL_STATUS_CODE" : "1",  
"CLASSIFICATION_CODE" : "RD",  
"CLASSIFICATION_CODE_DESCRIPTION" : "Dwelling",  
"LOCAL_CUSTODIAN_CODE" : 1760,  
"LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",  
"POSTAL_ADDRESS_CODE" : "S",  
"POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",  
"BLPU_STATE_CODE" : "2",  
"BLPU_STATE_CODE_DESCRIPTION" : "In use",  
"TOPOGRAPHY_LAYER_TOID" : "osgb1000016343656",  
"LAST_UPDATE_DATE" : "07/05/2010",  
"ENTRY_DATE" : "08/10/2001",  
"BLPU_STATE_DATE" : "19/02/2009",  
"MATCH" : 0.9,  
"MATCH_DESCRIPTION" : "GOOD"  
}  
}
```

---

### XML LPI match request

[https://api.ordnancesurvey.co.uk/places/v1/addresses/match?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE,%20NURSLING,%20SOUTHAMPTON,%20SO16%20AS&format=xml&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/match?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE,%20NURSLING,%20SOUTHAMPTON,%20SO16%20AS&format=xml&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])

The Unique Property Reference Number	The Unique Property Reference Number
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
match?	Resource being requested.
query=	Free text search parameter.
&format=	Format being requested (xml).
&dataset=	Dataset being requested (LPI).
&key=	User API authentication key

### Output:

```

<AddressAPI>
  <header>
    <uri>
      https://api.ordnancesurvey.co.uk/places/v1/addresses/match?query=ORDNANCE%
20SURVEY%2C%204%2C%20ADANAC%20DRIVE%2C%20NURSLING%2C%20SOUTHAMPTON%2C%20SO16%200
AS&format=XML&dataset=LPI
    </uri>
    <query>
query=ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16 0AS
    </query>
    <offset>0</offset>
    <totalresults>4</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>100</maxresults>
    <matchprecision>1</matchprecision>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019924</UPRN>
      <ADDRESS>4, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16
0AS</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063833</LPI_KEY>
      <PAO_START_NUMBER>4</PAO_START_NUMBER>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSLING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437318.0</X_COORDINATE>
      <Y_COORDINATE>115539.0</Y_COORDINATE>
      <STATUS>APPROVED</STATUS>
      <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01GV</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Central Government
Service</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>
      <TOPOGRAPHY_LAYER_TOID>osgb1000002682081995</TOPOGRAPHY_LAYER_TOID>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
      <ENTRY_DATE>01/09/2010</ENTRY_DATE>

```

```

        <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
        <STREET_STATE_CODE>1</STREET_STATE_CODE>
        <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>
        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>1.0</MATCH>
        <MATCH_DESCRIPTION>EXACT</MATCH_DESCRIPTION>
    </LPI>
    <LPI>
        <UPRN>200000699027</UPRN>
        <ADDRESS>4, LUKIN DRIVE, NURSLING, HAMPSHIRE, SO16
0TN</ADDRESS>
        <USRN>40015511</USRN>
        <LPI_KEY>1760L000030266</LPI_KEY>
        <PAO_START_NUMBER>4</PAO_START_NUMBER>
        <STREET_DESCRIPTION>LUKIN DRIVE</STREET_DESCRIPTION>
        <TOWN_NAME>NURSLING</TOWN_NAME>
        <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
        <POSTCODE_LOCATOR>SO16 0TN</POSTCODE_LOCATOR>
        <RPC>2</RPC>
        <X_COORDINATE>437505.0</X_COORDINATE>
        <Y_COORDINATE>116503.0</Y_COORDINATE>
        <STATUS>APPROVED</STATUS>
        <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
        <CLASSIFICATION_CODE>RD</CLASSIFICATION_CODE>

        <CLASSIFICATION_CODE_DESCRIPTION>Dwelling</CLASSIFICATION_CODE_DESCRIPTION
>
        <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
        <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
        <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
        <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
        <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
        <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>

        <TOPOGRAPHY_LAYER_TOID>osgb1000016343656</TOPOGRAPHY_LAYER_TOID>
        <LAST_UPDATE_DATE>07/05/2010</LAST_UPDATE_DATE>
        <ENTRY_DATE>08/10/2001</ENTRY_DATE>
        <BLPU_STATE_DATE>19/02/2009</BLPU_STATE_DATE>
        <STREET_STATE_CODE>2</STREET_STATE_CODE>

        <STREET_STATE_CODE_DESCRIPTION>Open</STREET_STATE_CODE_DESCRIPTION>
        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>0.9</MATCH>
        <MATCH_DESCRIPTION>GOOD</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## Chapter 3 Capture and Verification resources

### Find resource

The find resource is a service request based on either a full or partial address, intended to be a more ambiguous search function than the match resource.

`query` (Mandatory: **char**)

### Parameters

<b>query</b> (Mandatory: char)
The free text search parameter.
<b>format</b> (optional: char)
The format the response will be returned in. Default value is JSON.
<b>Valid values:</b> xml, json
<b>maxresults</b> (optional: integer)
The maximum number of results to return. Default is 100.
<b>Valid values:</b> 1–100
<b>offset</b> (optional: integer)
Offset the list of returned by this amount.
<b>dataset</b> (optional: char)
The dataset to return – DPA and/or LPI. Multiple values can be sent, separated by a comma. Default is DPA.
<b>Valid values:</b> DPA, LPI
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to DPA dataset. Default value is both languages.
<b>Valid values:</b> EN, CY
<b>matchprecision</b> (optional: integer)
The decimal point position at which the match score value is to be truncated.
<b>Valid values:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

### Example requests

Due to the purposely fuzzy nature of the Find resource, the response outputs have been trimmed. The total results found by the search can be noted in the header metadata of the response under the key of 'totalresults', with the returned results under the key 'maxresults'.

#### Basic Find query request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/find?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/find?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE&key=[INSERT_USER_API_KEY_HERE])

API components	Description
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
find?	Resource being requested.
query=	Free text search parameter.
&key=	User API authentication key

### Output:

```
{
  "header" : {
    "uri" : "https://api.ordnancesurvey.co.uk/places/v1/addresses/
find?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE",
    "query" : "query=ORDNANCE SURVEY, 4, ADANAC DRIVE",
    "offset" : 0,
    "totalresults" : 2678569,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 100,
    "matchprecision" : 1,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
      "RPC" : "2",
      "X_COORDINATE" : 437318.0,
      "Y_COORDINATE" : 115539.0,
      "STATUS" : "APPROVED",
      "LOGICAL_STATUS_CODE" : "1",
      "CLASSIFICATION_CODE" : "CO01GV",
      "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
      "LOCAL_CUSTODIAN_CODE" : 1760,
      "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
      "POSTAL_ADDRESS_CODE" : "S",
      "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
      "BLPU_STATE_CODE" : "2",
      "BLPU_STATE_CODE_DESCRIPTION" : "In use",
      "TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
      "LAST_UPDATE_DATE" : "01/09/2010",
      "ENTRY_DATE" : "01/09/2010",
      "BLPU_STATE_DATE" : "01/09/2010",
      "MATCH" : 1.0,
      "MATCH_DESCRIPTION" : "EXACT"
    }
  }, {
    "DPA" : {
      "UPRN" : "100062508062",
      "ADDRESS" : "UNIT 4, FRANCONIA DRIVE, NURSLING, SOUTHAMPTON, SO16 0YW",
      "BUILDING_NAME" : "UNIT 4",
      "THOROUGHFARE_NAME" : "FRANCONIA DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
```



```

"POST_TOWN" : "SOUTHAMPTON",
"POSTCODE" : "SO16 0YW",
"RPC" : "1",
"X_COORDINATE" : 436902.0,
"Y_COORDINATE" : 115276.0,
"STATUS" : "APPROVED",
"LOGICAL_STATUS_CODE" : "1",
"CLASSIFICATION_CODE" : "CI03",
"CLASSIFICATION_CODE_DESCRIPTION" : "Workshop / Light Industrial",
"LOCAL_CUSTODIAN_CODE" : 1760,
"LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
"POSTAL_ADDRESS_CODE" : "S",
"POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
"BLPU_STATE_CODE" : "2",
"BLPU_STATE_CODE_DESCRIPTION" : "In use",
"TOPOGRAPHY_LAYER_TOID" : "osgb1000016320371",
"LAST_UPDATE_DATE" : "12/04/2012",
"ENTRY_DATE" : "05/05/2001",
"BLPU_STATE_DATE" : "19/02/2009",
"MATCH" : 0.6,
"MATCH_DESCRIPTION" : "NO MATCH"
}
}

```

## XML LPI find request

[https://api.ordnancesurvey.co.uk/places/v1/addresses/find?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE&format=xml&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/find?query=ORDNANCE%20SURVEY,%204,%20ADANAC%20DRIVE&format=xml&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])

API components	Description
<a href="https://api.ordnancesurvey.co.uk/places/v1/addresses/">https://api.ordnancesurvey.co.uk/places/v1/addresses/</a>	OS Places URL.
find?	Resource being requested.
query=	Free text search parameter.
&format=	Format being requested (xml).
&dataset=	Dataset being requested (LPI).
&key=	User API authentication key

**Output:**

```
<AddressAPI>
  <header>
    <uri>
      https://api.ordnancesurvey.co.uk/places/v1/addresses/find?query=ORDNANCE%2
0SURVEY,%204,%20ADANAC%20DRIVE&format=xml&dataset=LPI
    </uri>
    <query>
      query=ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16 0AS
    </query>
    <offset>0</offset>
    <totalresults>3001914</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>100</maxresults>
    <matchprecision>1</matchprecision>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019924</UPRN>
      <ADDRESS>4, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16
0AS</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063833</LPI_KEY>
      <PAO_START_NUMBER>4</PAO_START_NUMBER>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSLING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437318.0</X_COORDINATE>
      <Y_COORDINATE>115539.0</Y_COORDINATE>
      <STATUS>APPROVED</STATUS>
      <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01GV</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Central Government
Service</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>
      <TOPOGRAPHY_LAYER_TOID>osgb1000002682081995</TOPOGRAPHY_LAYER_TOID>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
      <ENTRY_DATE>01/09/2010</ENTRY_DATE>
      <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
      <STREET_STATE_CODE>1</STREET_STATE_CODE>
      <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>
      <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
      <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
      <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>
      <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
      <MATCH>0.6</MATCH>
```

```

        <MATCH_DESCRIPTION>NO MATCH</MATCH_DESCRIPTION>
    </LPI>
    <LPI>
        <UPRN>200010019925</UPRN>
        <ADDRESS>
EXPLORERS DAY NURSERY, 4A, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16 0AS
        </ADDRESS>
        <USRN>40020087</USRN>
        <LPI_KEY>1760L000063834</LPI_KEY>
        <ORGANISATION>EXPLORERS DAY NURSERY</ORGANISATION>
        <PAO_START_NUMBER>4</PAO_START_NUMBER>
        <PAO_START_SUFFIX>A</PAO_START_SUFFIX>
        <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
        <TOWN_NAME>NURSLING</TOWN_NAME>
        <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
        <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
        <RPC>2</RPC>
        <X_COORDINATE>437367.0</X_COORDINATE>
        <Y_COORDINATE>115432.0</Y_COORDINATE>
        <STATUS>APPROVED</STATUS>
        <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
        <CLASSIFICATION_CODE>CE02</CLASSIFICATION_CODE>
        <CLASSIFICATION_CODE_DESCRIPTION>Children's Nursery /
Crèche</CLASSIFICATION_CODE_DESCRIPTION>
        <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
        <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
        <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
        <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
        <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
        <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>
        <LAST_UPDATE_DATE>16/06/2011</LAST_UPDATE_DATE>
        <ENTRY_DATE>01/09/2010</ENTRY_DATE>
        <BLPU_STATE_DATE>16/06/2011</BLPU_STATE_DATE>
        <STREET_STATE_CODE>1</STREET_STATE_CODE>
        <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>
        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>0.6</MATCH>
        <MATCH_DESCRIPTION>NO MATCH</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## UPRN resource

The UPRN resource is a service that returns address details based on the Unique Property Reference Number (UPRN), a 12 digit unique number for every building and plot of land, excluding addresses in Northern Ireland. The UPRN resource is not available for addresses in Northern Ireland.

## Parameters

<b>uprn</b> (Mandatory: char)
Integer search parameter
<b>format</b> (optional: char)
The format the response will be returned in. Default value is JSON.
<b>Valid values:</b> xml, json
<b>dataset</b> (optional: char)
The dataset to return – DPA and/or LPI. Multiple values can be sent, separated by a comma. Default is DPA.
<b>Valid values:</b> DPA, LPI
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to DPA dataset. Default value is both languages.
<b>Valid values:</b> EN, CY

## Example requests

### Basic UPRN request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/uprn?uprn=200010019924&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/uprn?uprn=200010019924&key=[INSERT_USER_API_KEY_HERE])

API components	Description
<a href="https://api.ordnancesurvey.co.uk/places/v1/addresses/">https://api.ordnancesurvey.co.uk/places/v1/addresses/</a>	OS Places URL.
uprn	Resource being requested.
uprn=	UPRN being queried
&key=	User API authentication key

### Output:

```
{
  "header" : {
    "uri" : "https://api.ordnancesurvey.co.uk/places/v1/addresses/
uprn?uprn=200010019924",
    "query" : "uprn=200010019924",
    "offset" : 0,
    "totalresults" : 1,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 100,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
```

```

"RPC" : "2",
"X_COORDINATE" : 437318.0,
"Y_COORDINATE" : 115539.0,
"STATUS" : "APPROVED",
"LOGICAL_STATUS_CODE" : "1",
"CLASSIFICATION_CODE" : "CO01GV",
"CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
"LOCAL_CUSTODIAN_CODE" : 1760,
"LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
"POSTAL_ADDRESS_CODE" : "S",
"POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
"BLPU_STATE_CODE" : "2",
"BLPU_STATE_CODE_DESCRIPTION" : "In use",
"TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
"LAST_UPDATE_DATE" : "01/09/2010",
"ENTRY_DATE" : "01/09/2010",
"BLPU_STATE_DATE" : "01/09/2010",
"MATCH" : 1.0,
"MATCH_DESCRIPTION" : "EXACT"
}
} ]
}

```

---

**UPRN XML LPI request**

[https://api.ordnancesurvey.co.uk/places/v1/addresses/uprn?uprn=200010019920&format=xml&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/uprn?uprn=200010019920&format=xml&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])

API components	Description
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
uprn?	Resource being requested
uprn=	UPRN being queried
&format=	Format being requested (xml)
&dataset=	Dataset being requested (LPI)
&key=	User API authentication key

### Output:

```
<AddressAPI>
  <header>
    <uri>
      https://api.ordnancesurvey.co.uk/places/v1/addresses/uprn?uprn=20001001992
0&format=xml&dataset=LPI
    </uri>
    <query>uprn=200010019920</query>
    <offset>0</offset>
    <totalresults>1</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>100</maxresults>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019920</UPRN>
      <ADDRESS>1A, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16
0TE</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063829</LPI_KEY>
      <PAO_START_NUMBER>1</PAO_START_NUMBER>
      <PAO_START_SUFFIX>A</PAO_START_SUFFIX>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSLING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0TE</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437186.0</X_COORDINATE>
      <Y_COORDINATE>116240.0</Y_COORDINATE>
      <STATUS>PROVISIONAL</STATUS>
      <LOGICAL_STATUS_CODE>6</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Office / Work
Studio</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>1</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>Under
construction</BLPU_STATE_CODE_DESCRIPTION>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
      <ENTRY_DATE>01/09/2010</ENTRY_DATE>
      <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
      <STREET_STATE_CODE>1</STREET_STATE_CODE>
```

```

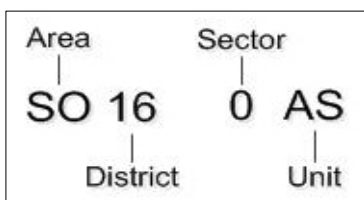
        <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>
        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>6</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>PROVISIONAL</LPI_LOGICAL_STATUS_CODE_
DESCRIPTION>
        <MATCH>1.0</MATCH>
        <MATCH_DESCRIPTION>EXACT</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## Postcode resource

The postcode resource returns addresses based on a postcode. The queried postcode can be a partial postcode consisting of just the area and district, or the area, district and sector, or a full postcode consisting of the area, district, sector and unit. Please see below for an explanation of the properties of a postcode:



## Parameters

<b>postcode</b> (Mandatory: integer)
Integer search parameter
<b>format</b> (optional: char)
The format the response will be returned in. Default value is <code>JSON</code> .
<b>Valid values:</b> <code>xml</code> , <code>json</code>
<b>maxresults</b> (optional: integer)
The maximum number of results to return. Default is 100.
<b>Valid values:</b> 1–100
<b>offset</b> (optional: integer)
Offset the list of returned by this amount.
<b>dataset</b> (optional: char)
The dataset to return – <code>DPA</code> and/or <code>LPI</code> . Multiple values can be sent, separated by a comma. Default is <code>DPA</code> .
<b>Valid values:</b> <code>DPA</code> , <code>LPI</code>
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to <code>DPA</code> dataset. Default value is both languages.
<b>Valid values:</b> <code>EN</code> , <code>CY</code>

## Example requests

### Basic postcode request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/postcode?postcode=SO16%200AS&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/postcode?postcode=SO16%200AS&key=[INSERT_USER_API_KEY_HERE])

API Components	Description
<a href="https://api.ordnancesurvey.co.uk/places/v1/addresses/">https://api.ordnancesurvey.co.uk/places/v1/addresses/</a>	OS Places URL.
postcode?	Resource being requested.
postcode=	Postcode being queried.
&key=	User API authentication key

### Output:

```
{
  "header" : {
    "uri" : "https://api.ordnancesurvey.co.uk/places/v1/addresses/
postcode?postcode=SO16%200AS]",
    "offset" : 0,
    "totalresults" : 1,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 100,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
      "RPC" : "2",
      "X_COORDINATE" : 437318.0,
      "Y_COORDINATE" : 115539.0,
      "STATUS" : "APPROVED",
      "LOGICAL_STATUS_CODE" : "1",
      "CLASSIFICATION_CODE" : "CO01GV",
      "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
      "LOCAL_CUSTODIAN_CODE" : 1760,
      "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
      "POSTAL_ADDRESS_CODE" : "S",
      "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
      "BLPU_STATE_CODE" : "2",
      "BLPU_STATE_CODE_DESCRIPTION" : "In use",
      "TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
      "LAST_UPDATE_DATE" : "01/09/2010",
      "ENTRY_DATE" : "01/09/2010",
      "BLPU_STATE_DATE" : "01/09/2010",
      "MATCH" : 1.0,
      "MATCH_DESCRIPTION" : "EXACT"
    }
  } ]
}
```

---



## Postcode XML LPI request

[https://api.ordnancesurvey.co.uk/places/v1/addresses/postcode?postcode=SO16%200AS&format=xml&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/postcode?postcode=SO16%200AS&format=xml&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])

API components	Description
<a href="https://api.ordnancesurvey.co.uk/places/v1/addresses/">https://api.ordnancesurvey.co.uk/places/v1/addresses/</a>	OS Places URL.
postcode?	Resource being requested.
postcode=	Postcode being queried
&format=	Format being requested (xml).
&dataset=	Dataset being requested (LPI).
&key=	User API authentication key

## Output:

```
<AddressAPI>
  <header>
    <uri>
      https://api.ordnancesurvey.co.uk/places/v1/addresses/
postcode?postcode=SO16%200AS&format=xml&dataset=LPI
    </uri>
    <query>postcode=SO160AS</query>
    <offset>0</offset>
    <totalresults>2</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>100</maxresults>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019924</UPRN>
      <ADDRESS>4, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16
0AS</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063833</LPI_KEY>
      <PAO_START_NUMBER>4</PAO_START_NUMBER>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSLING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437318.0</X_COORDINATE>
      <Y_COORDINATE>115539.0</Y_COORDINATE>
      <STATUS>APPROVED</STATUS>
      <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01GV</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Central Government
Service</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>
      <TOPOGRAPHY_LAYER_TOID>osgb1000002682081995</TOPOGRAPHY_LAYER_TOID>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
```

```

        <ENTRY_DATE>01/09/2010</ENTRY_DATE>
        <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
        <STREET_STATE_CODE>1</STREET_STATE_CODE>
        <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>
        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>1.0</MATCH>
        <MATCH_DESCRIPTION>EXACT</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## Chapter 4 GeoSearch resources

### Nearest resource

The nearest resource returns the closest address to a given point. The coordinates for the point have to be in British National Grid (BNG) and to two decimal places or less. A property will only be considered to be included by the search if the Address Seed is in range of the search, regardless of the property's physical boundaries. This resource is unavailable for addresses within Northern Ireland.

### Parameters

<b>point</b> (Mandatory: char)
One comma-separated coordinate set in BNG that specifies the coordinate to find the nearest record to in a straight line. The maximum distance that the search will try is 1,000 metres. The precision of the coordinates is to two decimal places (that is, 1 cm accuracy). Default value is 100 metres.
<b>radius</b> (optional: float)
The radius in metres to search within. Maximum is 1,000 metres. If above then an error message will be returned (see below). The precision of the distance is to two decimal places (that is, 1 cm accuracy). Default value is 100 metres.
<b>format</b> (optional: char)
The format the response will be returned in. Default value is <code>JSON</code> .
<b>Valid values:</b> <code>xml</code> , <code>json</code>
<b>dataset</b> (optional: char)
The dataset to return – <code>DPA</code> and/or <code>LPI</code> . Multiple values can be sent, separated by a comma. Default is <code>DPA</code> .
<b>Valid values:</b> <code>DPA</code> , <code>LPI</code>
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to <code>DPA</code> dataset. Default value is both languages.
<b>Valid values:</b> <code>EN</code> , <code>CY</code>

### Example requests

#### Basic nearest request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/nearest?point=437307,%20115579.53&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/nearest?point=437307,%20115579.53&key=[INSERT_USER_API_KEY_HERE])

API components	Description
<code>https://api.ordnancesurvey.co.uk/places/v1/addresses/</code>	OS Places URL.
<code>nearest</code>	Resource being requested.
<code>point=</code>	Point being queried
<code>&amp;key=</code>	User API authentication key

#### Output:

```
{  
  "header" : {
```

```

    "uri" : "
https://api.ordnancesurvey.co.uk/places/v1/addresses/nearest?POINT=437307,%20115
579.53",
    "query" : "point=437307, 115579.53",
    "offset" : 0,
    "totalresults" : 1,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 1,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
      "RPC" : "2",
      "X_COORDINATE" : 437318.0,
      "Y_COORDINATE" : 115539.0,
      "STATUS" : "APPROVED",
      "LOGICAL_STATUS_CODE" : "1",
      "CLASSIFICATION_CODE" : "CO01GV",
      "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
      "LOCAL_CUSTODIAN_CODE" : 1760,
      "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
      "POSTAL_ADDRESS_CODE" : "S",
      "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
      "BLPU_STATE_CODE" : "2",
      "BLPU_STATE_CODE_DESCRIPTION" : "In use",
      "TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
      "LAST_UPDATE_DATE" : "01/09/2010",
      "ENTRY_DATE" : "01/09/2010",
      "BLPU_STATE_DATE" : "01/09/2010",
      "MATCH" : 1.0,
      "MATCH_DESCRIPTION" : "EXACT"
    }
  } ]
}

```

---

#### Nearest XML LPI request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/nearest?point=437307,%20115579.53&format=XML&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/nearest?point=437307,%20115579.53&format=XML&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])

API components	Description
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
nearest?	Resource being requested.
point=	Point being queried
&format=	Format being requested (xml).
&dataset=	Dataset being requested (LPI).
&key=	User API authentication key

### Output:

```

<AddressAPI>
  <header>
    <uri>
https://api.ordnancesurvey.co.uk/places/v1/addresses/
nearest?POINT=437307,%20115579.53&format=XML&dataset=LPI
    </uri>
    <query>point=437307, 115579.53 radius=100</query>
    <offset>0</offset>
    <totalresults>1</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>1</maxresults>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019924</UPRN>
      <ADDRESS>4, ADANAC DRIVE, NURSING, HAMPSHIRE, SO16
0AS</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063833</LPI_KEY>
      <PAO_START_NUMBER>4</PAO_START_NUMBER>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437318.0</X_COORDINATE>
      <Y_COORDINATE>115539.0</Y_COORDINATE>
      <STATUS>APPROVED</STATUS>
      <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01GV</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Central Government
Service</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>
      <TOPOGRAPHY_LAYER_TOID>osgb1000002682081995</TOPOGRAPHY_LAYER_TOID>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
      <ENTRY_DATE>01/09/2010</ENTRY_DATE>
      <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
      <STREET_STATE_CODE>1</STREET_STATE_CODE>
      <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>

```

```

        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>1.0</MATCH>
        <MATCH_DESCRIPTION>EXACT</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## BBOX resource

The BBOX (bounding box) resource takes two points and creates a bounding box around the points. All addresses in this bounding box are then returned. The maximum size of the bounding box is 1 km<sup>2</sup>. A property will only be considered to be included by the search if the Address Seed is in range of the search, regardless of the property's physical boundaries. This resource is unavailable for addresses within Northern Ireland.

## Parameters

<b>bbox</b> (Mandatory: char)
A pair of comma-separated coordinates in BNG projection, with an accuracy of two decimal places or less, that specify the lower left and upper right coordinates of the bounding box. The maximum size of the bounding box is 1 km <sup>2</sup> . If the bounding box exceeds this, an error message is returned. The precision of the coordinates is to an accuracy of 8 metres.
<b>format</b> (optional: char)
The format the response will be returned in. Default value is <code>JSON</code> .
<b>Valid values:</b> <code>xml</code> , <code>json</code>
<b>maxresults</b> (optional: integer)
The maximum number of results to return. Default is 100.
<b>Valid values:</b> 1–100
<b>offset</b> (optional: integer)
The format the response will be returned in. Default value is <code>JSON</code> .
<b>dataset</b> (optional: char)
The dataset to return – <code>DPA</code> and/or <code>LPI</code> . Multiple values can be sent, separated by a comma. Default is <code>DPA</code> .
<b>Valid values:</b> <code>DPA</code> , <code>LPI</code>
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to <code>DPA</code> dataset. Default value is both languages.
<b>Valid values:</b> <code>EN</code> , <code>CY</code>

## Example requests

### Basic BBOX request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/bbox?bbox=437179,%20115401,%20437343,%20115643&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/bbox?bbox=437179,%20115401,%20437343,%20115643&key=[INSERT_USER_API_KEY_HERE])

API components	Description
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
bbox	Resource being requested.
bbox=	Bounding box coordinates to be analysed.
&key=	User API authentication key.

### Output:

```
{
  "header" : {
    "uri" : " https://api.ordnancesurvey.co.uk/places/v1/addresses/
bbox?bbox=437179,%20115401,%20437343,%20115643",
    "query" : "bbox=437179, 115401, 437343, 115643",

    "offset" : 0,
    "totalresults" : 1,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 100,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
      "RPC" : "2",
      "X_COORDINATE" : 437318.0,
      "Y_COORDINATE" : 115539.0,
      "STATUS" : "APPROVED",
      "LOGICAL_STATUS_CODE" : "1",
      "CLASSIFICATION_CODE" : "CO01GV",
      "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
      "LOCAL_CUSTODIAN_CODE" : 1760,
      "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
      "POSTAL_ADDRESS_CODE" : "S",
      "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
      "BLPU_STATE_CODE" : "2",
      "BLPU_STATE_CODE_DESCRIPTION" : "In use",
      "TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
      "LAST_UPDATE_DATE" : "01/09/2010",
      "ENTRY_DATE" : "01/09/2010",
      "BLPU_STATE_DATE" : "01/09/2010",
      "MATCH" : 1.0,
      "MATCH_DESCRIPTION" : "EXACT"
    }
  } ]
}
```

---

**BBOX XML LPI request:**

<https://api.ordnancesurvey.co.uk/places/v1/addresses/>

[bbox?bbox=437179,%20115401,%20437343,%20115643&format=XML&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/bbox?bbox=437179,%20115401,%20437343,%20115643&format=XML&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])



API components	Description
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
bbox	Resource being requested.
bbox=	Bounding box coordinates to be analysed.
&format=	Format being requested (xml).
&dataset=	Dataset being requested (LPI).
&key=	User API authentication key.

### Output:

```

<AddressAPI>
  <header>
    <uri>
      https://api.ordnancesurvey.co.uk/places/v1/addresses/bbox?bbox=437179,%201
15401,%20437343,%20115643&format=XML&dataset=LPI
    </uri>
    <query>bbox=437179, 115401, 437343, 115643</query>
    <offset>0</offset>
    <totalresults>1</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>100</maxresults>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019924</UPRN>
      <ADDRESS>4, ADANAC DRIVE, NURSING, HAMPSHIRE, SO16
0AS</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063833</LPI_KEY>
      <PAO_START_NUMBER>4</PAO_START_NUMBER>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437318.0</X_COORDINATE>
      <Y_COORDINATE>115539.0</Y_COORDINATE>
      <STATUS>APPROVED</STATUS>
      <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01GV</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Central Government
Service</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>
      <TOPOGRAPHY_LAYER_TOID>osgb1000002682081995</TOPOGRAPHY_LAYER_TOID>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
      <ENTRY_DATE>01/09/2010</ENTRY_DATE>
      <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
      <STREET_STATE_CODE>1</STREET_STATE_CODE>
      <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>

```

```

        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>1.0</MATCH>
        <MATCH_DESCRIPTION>EXACT</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## Radius resource

The radius resource takes a pair of coordinates as the centre for a circle, and returns all address attributes that are intersected by the resulting circle. A property will only be considered to be included by the search if the Address Seed is in range of the search, regardless of the property's physical boundaries. This resource is unavailable for addresses within Northern Ireland.

## Parameters

<b>point</b> (Mandatory: char)
One comma-separated coordinate set in BNG that specifies the coordinate at the centre of the search circle. The precision of the coordinates is two decimal places (that is, 1 cm accuracy).
<b>radius</b> (optional: float)
The radius to search within in metres. The maximum radius is 1,000 metres. If above then an error message is returned. The precision of the distance is to two decimal places (that is, 1 cm accuracy).
<b>format</b> (optional: char)
The format the response will be returned in. Default value is <code>JSON</code> .
<b>Valid values:</b> <code>xml</code> , <code>json</code>
<b>maxresults</b> (optional: integer)
The maximum number of results to return. Default is 100.
<b>Valid values:</b> 1–100
<b>offset</b> (optional: integer)
The offset the list of returned by this amount.
<b>dataset</b> (optional: char)
The dataset to return – <code>DPA</code> and/or <code>LPI</code> . Multiple values can be sent, separated by a comma. Default is <code>DPA</code> .
<b>Valid values:</b> <code>xml</code> , <code>json</code>
<b>lr</b> (optional: char)
Which language of addresses to return. Valid languages are English and Welsh. Filter only applicable to <code>DPA</code> dataset. Default value is both languages.
<b>Valid values:</b> <code>EN</code> , <code>CY</code>

## Example requests

### Basic radius request:

[https://api.ordnancesurvey.co.uk/places/v1/addresses/radius?point=437307,115579.53&radius=100&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/radius?point=437307,115579.53&radius=100&key=[INSERT_USER_API_KEY_HERE])

API components	Description
<a href="https://api.ordnancesurvey.co.uk/places/v1/addresses/">https://api.ordnancesurvey.co.uk/places/v1/addresses/</a>	OS Places URL.
radius	Resource being requested.
point=	Bounding box coordinates to be analysed.
&radius=	Radius around the point to be used as the centre
&key=	User API authentication key.

### Output:

```
{
  "header" : {
    "uri" : "
https://api.ordnancesurvey.co.uk/places/v1/addresses/radius?point=437307,
115579.53&RADIUS=100",
    "query" : "point=437307, 115579.53 radius=100",
    "offset" : 0,
    "totalresults" : 1,
    "format" : "JSON",
    "dataset" : "DPA",
    "lr" : "EN,CY",
    "maxresults" : 100,
    "epoch" : "29"
  },
  "results" : [ {
    "DPA" : {
      "UPRN" : "200010019924",
      "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
      "ORGANISATION_NAME" : "ORDNANCE SURVEY",
      "BUILDING_NUMBER" : "4",
      "THOROUGHFARE_NAME" : "ADANAC DRIVE",
      "DEPENDENT_LOCALITY" : "NURSLING",
      "POST_TOWN" : "SOUTHAMPTON",
      "POSTCODE" : "SO16 0AS",
      "RPC" : "2",
      "X_COORDINATE" : 437318.0,
      "Y_COORDINATE" : 115539.0,
      "STATUS" : "APPROVED",
      "LOGICAL_STATUS_CODE" : "1",
      "CLASSIFICATION_CODE" : "CO01GV",
      "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
      "LOCAL_CUSTODIAN_CODE" : 1760,
      "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
      "POSTAL_ADDRESS_CODE" : "S",
      "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
      "BLPU_STATE_CODE" : "2",
      "BLPU_STATE_CODE_DESCRIPTION" : "In use",
      "TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
      "LAST_UPDATE_DATE" : "01/09/2010",
      "ENTRY_DATE" : "01/09/2010",
      "BLPU_STATE_DATE" : "01/09/2010",
      "MATCH" : 1.0,
      "MATCH_DESCRIPTION" : "EXACT"
    }
  } ]
}
```

}

---

**Radius XML LPI request:**

[https://api.ordnancesurvey.co.uk/places/v1/addresses/radius?point=437307,%20115579.53&RADIUS=100&format=XML&dataset=LPI&key=\[INSERT\\_USER\\_API\\_KEY\\_HERE\]](https://api.ordnancesurvey.co.uk/places/v1/addresses/radius?point=437307,%20115579.53&RADIUS=100&format=XML&dataset=LPI&key=[INSERT_USER_API_KEY_HERE])

API components	Description
https://api.ordnancesurvey.co.uk/places/v1/addresses/	OS Places URL.
radius	Resource being requested.
point=	Bounding box coordinates to be analysed.
&radius=	Radius around the point to be used as the centre
&format=	Format being requested (xml).
&dataset=	Dataset being requested (LPI).
&key=	User API authentication key.

### Output:

```

<AddressAPI>
  <header>
    <uri>
      https://api.ordnancesurvey.co.uk/places/v1/addresses/
radius?point=437307,%20115579.53&RADIUS=100&format=XML&dataset=LPI
    </uri>
    <query>point=437307, 115579.53 radius=100</query>
    <offset>0</offset>
    <totalresults>1</totalresults>
    <format>xml</format>
    <dataset>LPI</dataset>
    <maxresults>100</maxresults>
    <epoch>29</epoch>
  </header>
  <results>
    <LPI>
      <UPRN>200010019924</UPRN>
      <ADDRESS>4, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16
0AS</ADDRESS>
      <USRN>40020087</USRN>
      <LPI_KEY>1760L000063833</LPI_KEY>
      <PAO_START_NUMBER>4</PAO_START_NUMBER>
      <STREET_DESCRIPTION>ADANAC DRIVE</STREET_DESCRIPTION>
      <TOWN_NAME>NURSLING</TOWN_NAME>
      <ADMINISTRATIVE_AREA>HAMPSHIRE</ADMINISTRATIVE_AREA>
      <POSTCODE_LOCATOR>SO16 0AS</POSTCODE_LOCATOR>
      <RPC>2</RPC>
      <X_COORDINATE>437318.0</X_COORDINATE>
      <Y_COORDINATE>115539.0</Y_COORDINATE>
      <STATUS>APPROVED</STATUS>
      <LOGICAL_STATUS_CODE>1</LOGICAL_STATUS_CODE>
      <CLASSIFICATION_CODE>CO01GV</CLASSIFICATION_CODE>
      <CLASSIFICATION_CODE_DESCRIPTION>Central Government
Service</CLASSIFICATION_CODE_DESCRIPTION>
      <LOCAL_CUSTODIAN_CODE>1760</LOCAL_CUSTODIAN_CODE>
      <LOCAL_CUSTODIAN_CODE_DESCRIPTION>TEST
VALLEY</LOCAL_CUSTODIAN_CODE_DESCRIPTION>
      <POSTAL_ADDRESS_CODE>S</POSTAL_ADDRESS_CODE>
      <POSTAL_ADDRESS_CODE_DESCRIPTION>A single
address</POSTAL_ADDRESS_CODE_DESCRIPTION>
      <BLPU_STATE_CODE>2</BLPU_STATE_CODE>
      <BLPU_STATE_CODE_DESCRIPTION>In
use</BLPU_STATE_CODE_DESCRIPTION>

      <TOPOGRAPHY_LAYER_TOID>osgb1000002682081995</TOPOGRAPHY_LAYER_TOID>
      <LAST_UPDATE_DATE>01/09/2010</LAST_UPDATE_DATE>
      <ENTRY_DATE>01/09/2010</ENTRY_DATE>
      <BLPU_STATE_DATE>01/09/2010</BLPU_STATE_DATE>
      <STREET_STATE_CODE>1</STREET_STATE_CODE>

```

```

        <STREET_STATE_CODE_DESCRIPTION>Under
construction</STREET_STATE_CODE_DESCRIPTION>
        <STREET_CLASSIFICATION_CODE>8</STREET_CLASSIFICATION_CODE>
        <STREET_CLASSIFICATION_CODE_DESCRIPTION>All
vehicles</STREET_CLASSIFICATION_CODE_DESCRIPTION>
        <LPI_LOGICAL_STATUS_CODE>1</LPI_LOGICAL_STATUS_CODE>

        <LPI_LOGICAL_STATUS_CODE_DESCRIPTION>APPROVED</LPI_LOGICAL_STATUS_CODE_DES
CRPTION>
        <MATCH>1.0</MATCH>
        <MATCH_DESCRIPTION>EXACT</MATCH_DESCRIPTION>
    </LPI>
</results>
</AddressAPI>

```

## Chapter 5 Output

For the resources listed, if the query returns results, the output will vary depending on the dataset chosen. The datasets share common keys and also have unique keys specific to that dataset.

### DPA keys

UPRN (optional: integer)	
The Unique Property Reference Number. For addresses in Northern Ireland, an empty string is returned.	
<b>Size:</b> 12	<b>Multiplicity:</b> 1
ADDRESS (optional: char)	
String containing the concatenated address.	
<b>Size:</b> 142	<b>Multiplicity:</b> 1
PO_BOX_NUMBER (optional: char)	
Post Office Box (PO Box <sup>®</sup> ) number	
<b>Size:</b> 6	<b>Multiplicity:</b> 0..1
ORGANISATION_NAME (optional: char)	
The organisation name is the business name given to a delivery point within a building or small group of buildings. This field could also include entries for churches, public houses and libraries.	
<b>Size:</b> 60	<b>Multiplicity:</b> 0..1
DEPARTMENT_NAME (optional: char)	
In a few organisations, department name is indicated because mail is received by subdivisions of the main organisation at distinct delivery points.	
<b>Size:</b> 60	<b>Multiplicity:</b> 0..1
SUB_BUILDING_NAME (optional: char)	
The sub-building name and/or number are identifiers for subdivision of properties.	
<b>Size:</b> 30	<b>Multiplicity:</b> 0..1
BUILDING_NAME (optional: char)	
A description applied to a single building or a small group of buildings.	
<b>Size:</b> 50	<b>Multiplicity:</b> 0..1
BUILDING_NUMBER (optional: integer)	
The building number, or postal number, is a number given to a single building or a small group of buildings.	
<b>Size:</b> 4	<b>Multiplicity:</b> 0..1
DEPENDENT_THOROUGHFARE_NAME (optional: char)	
In certain places, such as town centres, there are named thoroughfares within other named thoroughfares.	
<b>Size:</b> 80	<b>Multiplicity:</b> 0..1
THOROUGHFARE_NAME (optional: char)	
A thoroughfare in AddressBase Premium is fundamentally a road, track or named access route on which there are Royal Mail delivery points.	
<b>Size:</b> 80	<b>Multiplicity:</b> 0..1

DOUBLE_DEPENDENT_LOCALITY (optional: char)	
Used to distinguish between similar or same thoroughfares within a dependent locality.	
Size: 35	Multiplicity:0..1
DEPENDENT_LOCALITY (optional: char)	
Dependent locality areas may define an area within a post town.	
Size: 35	Multiplicity:0..1
POST_TOWN (optional: char)	
The town or city in which the Royal Mail sorting office is located.	
Size: 30	Multiplicity:1
POSTCODE (optional: char)	
A postcode is an abbreviated form of address made up of combinations of between five and seven alphanumeric characters.	
Size: 8	Multiplicity:1
RPC (optional: integer)	
The Representative Point Code. Used to describe the nature of the coordinated allocated to the address.	
Size: 1	Multiplicity:1
X_COORDINATE (optional: float)	
Easting coordinates in metres, defining the location in the British National Grid spatial reference system. For addresses in Northern Ireland, the coordinate 0.0 is returned.	
Size: 6 (2)	Multiplicity:1
Y_COORDINATE (optional: float)	
Northing coordinates in metres, defining the location in the British National Grid spatial reference system. For addresses in Northern Ireland, the coordinate 0.0 is returned.	
Size: 7 (2)	Multiplicity:1
STATUS (optional: char)	
A textual representation of the logical status code. Valid values are: APPROVED, ALTERNATIVE, PROVISIONAL. For addresses in Northern Ireland, an empty string is returned.	
Size: 11	Multiplicity:1
MATCH (optional: float)	
A score ranging from 0.0 – 1.0 given to the result representing how well it matches the query. An exact match: 1.0. Good match: 0.8 – 0.9. Partial match: 0.7. Please be aware that for the postcode resource, the returned value will always be 0.0.	
<b>Conditional – only returned for find and match resources</b>	
Size: 1 (1)	Multiplicity:0..1
MATCH_DESCRIPTION (optional: char)	
A textual representation of the match score. Valid values are: EXACT, GOOD, PARTIAL. Please be aware that for the postcode resource, the returned string will always be NO MATCH.	
<b>Conditional – only returned for find and match resources</b>	
Size: 7	Multiplicity:0..1



LOCAL_CUSTODIAN_CODE (optional: integer)	
Unique identifier of the Local Land and Property Gazetteer (LLPG) Custodian responsible for the maintenance of this record.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> 4	<b>Multiplicity:</b> 1
LOCAL_CUSTODIAN_CODE_DESCRIPTION (optional: char)	
Description of the Local Land and Property Gazetteer (LLPG) Custodian responsible for the maintenance of this record.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> as per code definition document	<b>Multiplicity:</b> 1
CLASSIFICATION_CODE (optional: char)	
A code that describes the classification of the record, for example, CE01HE is a higher education establishment.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> 1, 2, 4, 6	<b>Multiplicity:</b> 1
CLASSIFICATION_CODE_DESCRIPTION (optional: char)	
A description that describes the classification of the record, for example, CE01HE is a higher education establishment.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> as per code definition document	<b>Multiplicity:</b> 1
POSTAL_ADDRESS_CODE (optional: char)	
A code that describes the type of postal delivery that the object is subject to.	
<b>Valid values:</b> S, N, C, M	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
POSTAL_ADDRESS_CODE_DESCRIPTION (optional: char)	
A description that describes the type of postal delivery that the object is subject to.	
<b>Valid values:</b> “A single address”, “Not a postal address”, “This is a multiple-occupancy or ‘child’ address”, “This is a ‘parent’ address with at least one child or associated address that may receive post”	
<b>Size:</b> 100	<b>Multiplicity:</b> 1
LOGICAL_STATUS_CODE (optional: integer)	
A code for the logical status of the BLPU.	
<b>Valid values:</b> 1, 3, 6, 8	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
BLPU_STATE_CODE (optional: integer)	
A code for the physical nature of the property or land object. These are used to represent the physical state of the feature.	
<b>Valid values:</b> 1, 2, 3, 4, 6, null	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
BLPU_STATE_CODE_DESCRIPTION (optional: char)	
A description for the physical nature of the property or land object. There are used to represent the physical state	

of the feature.	
<b>Valid values:</b> “Under construction”, “In use”, “Unoccupied”, “No longer existing”, “Planning permission granted”, “Unknown/Not applicable”	
<b>Size:</b> As per code definition document	<b>Multiplicity:</b> 0..1
TOPOGRAPHY_LAYER_TOID (optional: char)	
Unique key for the application cross reference record.	
<b>Size:</b> 14	<b>Multiplicity:</b> 1
PARENT_URPN (optional: integer)	
UPRN of the parent record.	
<b>Size:</b> 12	<b>Multiplicity:</b> 0..1
LAST_UPDATE_DATE (optional: date)	
Date this record was last updated.	
<b>Size:</b> Date	<b>Multiplicity:</b> 1
ENTRY_DATE (optional: date)	
Date of the data entry.	
<b>Size:</b> Date	<b>Multiplicity:</b> 1
LEGAL_NAME (optional: char)	
Registered legal name of organisation.	
<b>Size:</b> 60	<b>Multiplicity:</b> 0..1
BLPU_STATE_DATE (optional: date)	
Date at which the BLPU achieved its current state in the real-world.	
<b>Size:</b> Date	<b>Multiplicity:</b> 0..1

### Example DPA output:

```

"DPA" : {
  "UPRN" : "200010019924",
  "ADDRESS" : "ORDNANCE SURVEY, 4, ADANAC DRIVE, NURSLING, SOUTHAMPTON, SO16
0AS",
  "ORGANISATION_NAME" : "ORDNANCE SURVEY",
  "BUILDING_NUMBER" : "4",
  "THOROUGHFARE_NAME" : "ADANAC DRIVE",
  "DEPENDENT_LOCALITY" : "NURSLING",
  "POST_TOWN" : "SOUTHAMPTON",
  "POSTCODE" : "SO16 0AS",
  "RPC" : "2",
  "X_COORDINATE" : 437318.0,
  "Y_COORDINATE" : 115539.0,
  "STATUS" : "APPROVED",
  "LOGICAL_STATUS_CODE" : "1",
  "CLASSIFICATION_CODE" : "CO01GV",
  "CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
  "LOCAL_CUSTODIAN_CODE" : 1760,
  "LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
  "POSTAL_ADDRESS_CODE" : "S",
  "POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
  "BLPU_STATE_CODE" : "2",
  "BLPU_STATE_CODE_DESCRIPTION" : "In use",

```

```

"TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
"LAST_UPDATE_DATE" : "01/09/2010",
"ENTRY_DATE" : "01/09/2010",
"BLPU_STATE_DATE" : "01/09/2010",
"MATCH" : 1.0,
"MATCH_DESCRIPTION" : "EXACT"
}

```

## LPI keys

UPRN (integer)	
The Unique Property Reference Number. For addresses in Northern Ireland, an empty string is returned.	
Size: 12	Multiplicity: 1
ADDRESS (char)	
Char containing the concatenated address.	
Size: 142	Multiplicity: 1
USRN (integer)	
Foreign key linking the Street record to the LPI record.	
Size: 8	Multiplicity: 1
LPI_KEY (char)	
Unique key for the LPI.	
Size: 14	Multiplicity: 1
LEVEL (char)	
Memorandum of the vertical position of the address.	
Size: 30	Multiplicity: 0..1
ORGANISATION (char)	
Name of current occupier on the fascia of the BLPU.	
Size: 100	Multiplicity: 1
SAO_START_NUMBER (integer)	
The number of the secondary addressable object (SAO) or the start of the number range.	
Size: 4	Multiplicity: 0..1
SAO_START_SUFFIX (integer)	
The suffix to the sao_start_number.	
Size: 2	Multiplicity: 0..1
SAO_END_NUMBER (integer)	
The end of the number range for the SAO.	
Size: 4	Multiplicity: 0..1
SAO_END_SUFFIX (char)	
The suffix to the sao_end_number.	

<b>Size:</b> 2	<b>Multiplicity:</b> 0..1
SAO_TEXT (char)	
Contains the building name or description for the SAO.	
<b>Size:</b> 90	<b>Multiplicity:</b> 0..1
PAO_START_NUMBER (integer)	
The number of the primary addressable object (PAO) or the start of the number range.	
<b>Size:</b> 4	<b>Multiplicity:</b> 0..1
PAO_START_SUFFIX (char)	
The suffix to the pao_start_number.	
<b>Size:</b> 4	<b>Multiplicity:</b> 0..1
PAO_END_NUMBER (integer)	
The end of the number range for the PAO.	
<b>Size:</b> 4	<b>Multiplicity:</b> 0..1
PAO_END_SUFFIX (char)	
The suffix to the pao_end_number.	
<b>Size:</b> 2	<b>Multiplicity:</b> 0..1
PAO_TEXT (char)	
Contains the building name or description for the PAO.	
<b>Size:</b> 90	<b>Multiplicity:</b> 0..1
STREET_DESCRIPTION (char)	
Name, description or street number.	
<b>Size:</b> 100	<b>Multiplicity:</b> 1
LOCALITY_NAME (char)	
An area or geographical identifier within a town, village or hamlet.	
<b>Size:</b> 35	<b>Multiplicity:</b> 0..1
TOWN_NAME (char)	
Town name.	
<b>Size:</b> 30	<b>Multiplicity:</b> 0..1
ADMINISTRATIVE_AREA (char)	
Local Highway Authority name.	
<b>Size:</b> 30	<b>Multiplicity:</b> 0..1
AREA_NAME (char)	
Third level of geographic area name, for example, to record island names or property groups such as crofts.	
<b>Size:</b> 35	<b>Multiplicity:</b> 0..1
POSTCODE_LOCATOR (char)	
Postcode of the coordinate for the BLPU based purely on a spatial match against Code-Point® with polygons. This field must be used in conjunction with the RPC field to determine the accuracy of its position.	

<b>Size:</b> 8	<b>Multiplicity:</b> 1
RPC (integer)	
The Representative Point Code. Used to describe the nature of the coordinated allocated to the address.	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
X_COORDINATE (float)	
Easting coordinates in metres, defining the location in the British National Grid spatial reference system.	
<b>Size:</b> 6 (2)	<b>Multiplicity:</b> 1
Y_COORDINATE (float)	
Northing coordinates in metres, defining the location in the British National Grid spatial reference system.	
<b>Size:</b> 7 (2)	<b>Multiplicity:</b> 1
STATUS (char)	
A textual representation of the logical status code. Valid values are: APPROVED, ALTERNATIVE, PROVISIONAL	
<b>Size:</b> 11	<b>Multiplicity:</b> 1
MATCH (float)	
A score ranging from 0.0 – 1.0 given to the result representing how well it matches the query. An exact match: 1.0. Good match: 0.8 – 0.9. Partial match: 0.7. Please be aware that for the postcode resource, the returned value will always be 0.0.	
<b>Conditional – only returned for find and match resources</b>	
<b>Size:</b> 1 (1)	<b>Multiplicity:</b> 0..1
MATCH_DESCRIPTION (char)	
A textual representation of the match score. Valid values are: EXACT, GOOD, PARTIAL. Please be aware that for the postcode resource, the returned string will always be NO MATCH.	
<b>Conditional – only returned for find and match resources</b>	
<b>Size:</b> 7	<b>Multiplicity:</b> 0..1
LOCAL_CUSTODIAN_CODE (optional: integer)	
Unique identifier of the Local Land and Property Gazetteer (LLPG) Custodian responsible for the maintenance of this record.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> 4	<b>Multiplicity:</b> 1
LOCAL_CUSTODIAN_CODE_DESCRIPTION (optional: char)	
Description of the Local Land and Property Gazetteer (LLPG) Custodian responsible for the maintenance of this record.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> as per code definition document	<b>Multiplicity:</b> 1
CLASSIFICATION_CODE (optional: char)	
A code that describes the classification of the record, for example, CE01HE is a higher education establishment.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> 1, 2, 4, 6	<b>Multiplicity:</b> 1

CLASSIFICATION_CODE_DESCRIPTION (optional: char)	
A description that describes the classification of the record, for example, CE01HE is a higher education establishment.	
<b>Valid values:</b> <a href="#">See codes list</a>	
<b>Size:</b> as per code definition document	<b>Multiplicity:</b> 1
POSTAL_ADDRESS_CODE (optional: char)	
A code that describes the type of postal delivery that the object is subject to.	
<b>Valid values:</b> S, N, C, M	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
POSTAL_ADDRESS_CODE_DESCRIPTION (optional: char)	
A description that describes the type of postal delivery that the object is subject to.	
<b>Valid values:</b> “A single address”, “Not a postal address”, “This is a multiple-occupancy or ‘child’ address”, “This is a ‘parent’ address with at least one child or associated address that may receive post”	
<b>Size:</b> 100	<b>Multiplicity:</b> 1
STREET_STATE_CODE (optional: integer)	
A code identifying the current state of the street.	
<b>Valid values:</b> 1, 2, 4	
<b>Size:</b> 1	<b>Multiplicity:</b> 0..1
STREET_STATE_CODE_DESCRIPTION (optional: char)	
A description identifying the current state of the street.	
<b>Valid values:</b> “Under construction”, “Open”, “Permanently closed”	
<b>Size:</b> 100	<b>Multiplicity:</b> 0..1
STREET_CLASSIFICATION_CODE (optional: integer)	
A code for the primary street classification.	
<b>Valid values:</b> 4, 6, 8, 9, 10	
<b>Size:</b> 2	<b>Multiplicity:</b> 0..1
STREET_CLASSIFICATION_CODE_DESCRIPTION (optional: char)	
A description for the primary street classification.	
<b>Valid values:</b> “Pedestrian way or footpath”, “Cycle track of cycleway”, “All vehicles”, “Restricted byway”, “Bridleway”	
<b>Size:</b> as per code definition document	<b>Multiplicity:</b> 1
LOGICAL_STATUS_CODE (optional: integer)	
A code for the logical status of the BLPU.	
<b>Valid values:</b> 1, 3, 6, 8	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
BLPU_STATE_CODE (optional: integer)	
A code for the physical nature of the property or land object. These are used to represent the physical state of the feature.	

<b>Valid values:</b> 1, 2, 3, 4, 6, null	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
BLPU_STATE_CODE_DESCRIPTION (optional: char)	
A description for the physical nature of the property or land object. There are used to represent the physical state of the feature.	
<b>Valid values:</b> “Under construction”, “In use”, “Unoccupied”, “No longer existing”, “Planning permission granted”, “Unknown/Not applicable”	
<b>Size:</b> As per code definition document	<b>Multiplicity:</b> 0..1
TOPOGRAPHY_LAYER_TOID (optional: char)	
Unique key for the application cross reference record.	
<b>Size:</b> 14	<b>Multiplicity:</b> 1
PARENT_URPN (optional: integer)	
UPRN of the parent record.	
<b>Size:</b> 12	<b>Multiplicity:</b> 0..1
LAST_UPDATE_DATE (optional: date)	
Date this record was last updated.	
<b>Size:</b> Date	<b>Multiplicity:</b> 1
ENTRY_DATE (optional: date)	
Date of the data entry.	
<b>Size:</b> Date	<b>Multiplicity:</b> 1
LEGAL_NAME (optional: char)	
Registered legal name of organisation.	
<b>Size:</b> 60	<b>Multiplicity:</b> 0..1
BLPU_STATE_DATE (optional: date)	
Date at which the BLPU achieved its current state in the real-world.	
<b>Size:</b> Date	<b>Multiplicity:</b> 0..1
LPI_LOGICAL_STATUS_CODE (optional: integer)	
A code for the logical status of this record.	
<b>Valid values:</b> 1, 3, 6, 8	
<b>Size:</b> 1	<b>Multiplicity:</b> 1
LPI_LOGICAL_STATUS_CODE_DESCRIPTION (optional: char)	
A description for the logical status reflects where the LPI has reached in its life cycle. Logical status is important in identification of the addresses’ requirements, for example, whether it is an alternative address or an historic address.	
<b>Valid values:</b> “Approved”, “Alternative”, “Provisional”, “Historical”	
<b>Size:</b> as per code definition document	<b>Multiplicity:</b> 0..1

### Example LPI output:

```
"LPI" : {
```

```

"UPRN" : "200010019924",
"ADDRESS" : "4, ADANAC DRIVE, NURSLING, HAMPSHIRE, SO16 0AS",
"USRN" : "40020087",
"LPI_KEY" : "1760L000063833",
"PAO_START_NUMBER" : "4",
"STREET_DESCRIPTION" : "ADANAC DRIVE",
"TOWN_NAME" : "NURSLING",
"ADMINISTRATIVE_AREA" : "HAMPSHIRE",
"POSTCODE_LOCATOR" : "SO16 0AS",
"RPC" : "2",
"X_COORDINATE" : 437318.0,
"Y_COORDINATE" : 115539.0,
"STATUS" : "APPROVED",
"LOGICAL_STATUS_CODE" : "1",
"CLASSIFICATION_CODE" : "CO01GV",
"CLASSIFICATION_CODE_DESCRIPTION" : "Central Government Service",
"LOCAL_CUSTODIAN_CODE" : 1760,
"LOCAL_CUSTODIAN_CODE_DESCRIPTION" : "TEST VALLEY",
"POSTAL_ADDRESS_CODE" : "S",
"POSTAL_ADDRESS_CODE_DESCRIPTION" : "A single address",
"BLPU_STATE_CODE" : "2",
"BLPU_STATE_CODE_DESCRIPTION" : "In use",
"TOPOGRAPHY_LAYER_TOID" : "osgb1000002682081995",
"LAST_UPDATE_DATE" : "01/09/2010",
"ENTRY_DATE" : "01/09/2010",
"BLPU_STATE_DATE" : "01/09/2010",
"STREET_STATE_CODE" : "1",
"STREET_STATE_CODE_DESCRIPTION" : "Under construction",
"STREET_CLASSIFICATION_CODE" : "8",
"STREET_CLASSIFICATION_CODE_DESCRIPTION" : "All vehicles",
"LPI_LOGICAL_STATUS_CODE" : "1",
"LPI_LOGICAL_STATUS_CODE_DESCRIPTION" : "APPROVED",
"MATCH" : 1.0,
"MATCH_DESCRIPTION" : "EXACT"
}

```



## Annexe A      **OS Places usage**

### **Stress-testing**

The user is not allowed to stress-test the service at any time. If the user requires to stress-test OS Places, then please contact Ordnance Survey at least two weeks in advance, who will discuss your requirements.

### **API key security**

The security and usage of the API key is the responsibility of the developer. If the API key is visible to the end-user, then adequate procedures should be undertaken to ensure that the key is not used by unintended parties.

## Annexe B      Glossary

The purpose of this chapter is to provide a glossary of terms used in the definition of products, services, licensing and other terms and conditions for AddressBase and OS Places – Address products.

Where terms refer to other terms within the glossary, they are connected by means of hyperlinks to the relevant entries.

### **AddressBase**

A range of address-based products produced by GeoPlace and supplied exclusively by Ordnance Survey.

### **addressable object**

A number and/or name as approved by the contributing authority for the [LPI](#) associated with the [BLPU](#).

### **Address Seed**

The recorded centre point of an [object](#), as defined by an X and Y coordinate in British National Grid format.

### **AO(N) or addressable object (name)**

Generic term used to describe either the [Primary](#) or [Secondary Addressable Object](#) feature.

### **API**

Application programming interface.

### **attribute**

Any item of information packaged in an [AddressBase](#) feature. The [UPRN/TOID](#) and the geometry of the feature are both attributes of the feature.

### **BLPU or Basic Land and Property Unit**

A real-world object recorded within a gazetteer.

### **child**

A child [BLPU](#) is represented by an [LPI](#) that contains an entry in both the [SAO](#) and [PAO](#).

### **classification**

A description of the use of a real-world object to be found at a [BLPU](#).

### **conditional**

Dependent upon the type of the field being [mandatory](#) or [optional](#) for the data to be entered.

### **contributing authority**

A local authority responsible for creating and maintaining an LLPG.

### **data source**

The source of the [application cross reference](#). An external [dataset](#) that is linked to or provides a source of [ACI](#).

### **database**

A system intended to organise, store, and retrieve large amounts of data easily. Digital databases are managed using database management systems, which store database contents, allowing data creation and maintenance, and search and other access. The result of every query is presented as a relation.

### **dataset**

An identifiable set of data that share common characteristics and that are managed as a subset of the data within a [database](#).

### **Delivery Point Address**

A Delivery Point Address is defined as a property that receives deliveries from Royal Mail.

**easting**

A value on the X axis of the National Grid of Great Britain.

**field**

A defined area in a [database](#) record into which an item of data or value is entered.

**header**

Supplemental data at the beginning of a file.

**identifier**

An identifier that is primarily intended to provide unique and unambiguous feature identification for the purposes of exchanging feature-based information between computer systems, or associating data within a computer system.

**JavaScript**

A programming language for web browsers used primarily for front-end interaction.

**JSON**

JSON (JavaScript Object Notation) is a lightweight data interchange-format, returning data in the javascript object format.

**life cycle**

The series of events that occur in the life of a real-world [object](#) or the address(s) that represents it. This will always include those events that result in creation and deletion, and may also include events that result in amendments or change.

**Local Highway Authority**

A local authority with the responsibility for maintaining public roads and streets in their administrative area.

**logical status**

An indicator of the current status of a specified [BLPU](#) or [LPI](#) record in an LLPG.

**LPI or Land and Property Identifier**

Used to describe the location of a [BLPU](#). Also see BS 7666-2:2006, page 2, section 3.5 for definition.

**mandatory**

An action, parameter or process that must be undertaken.

**metadata**

Graphical or textual information about the content, quality, condition, origins, and characteristics of data.

**National Grid**

A unique referencing system that can be applied to all Ordnance Survey maps of Great Britain at all scales. It provides an unambiguous spatial reference for any place or entity in Great Britain.

**northing**

A value on the Y axis of the National Grid of Great Britain.

**object**

A real-world entity associated with land and property.

**optional**

An action, parameter or process that may be undertaken.

**organisation name**

The name on the fascia of a building.

**OWPA or objects without a postal address**

Object such as recreation ground/open space, public convenience, church or car park that does not receive mail.

**PAO or Primary Addressable Object**

The Primary Addressable Object Name (PAON) is the designated premise number, and/or the premise name; where neither of these exist then the PAON is the name of the organisation in occupation, or a description of the addressable object.

**parent**

In a parent/child relationship a parent [BLPU](#) is represented by an [LPI](#) that contains an entry in the [PAO](#) but no entry in the [SAO](#).

**point**

A pair of coordinates.

**REST**

Representational state transfer – an architectural style used by the world wide web.

**RESTful API**

An API that follows the RESTful architectural style.

**RPC or Representative Point Code**

Quality statement with regard to the grid coordinate assigned to a [BLPU](#).

**SAO or Secondary Addressable Object**

The Secondary Addressable Object Name (SAON) is the number, name or description used to identify the secondary addressable object within or related to a primary addressable object.

**SNN or street naming and numbering**

Function performed by a [contributing authority](#) under the statutory legislation, responsible for the approval of all street names and property numbering schemes within that administrative area.

**street**

A way or thoroughfare providing a right of passage on foot, by cycle or by motor vehicle, or access to more than one property.

**street name**

Official text approved by the [contributing authority](#) used to describe a type 1 street.

**TOID**

An identifier that uniquely identifies addressable features associated within OS MasterMap Topography and OS MasterMap ITN products.

**UDPRN**

A Unique Delivery Point Reference Number assigned by Royal Mail.

**UPRN or Unique Property Reference Number**

A Unique Property Reference Number assigned to each [BLPU](#).

**USRN or Unique Street Reference Number**

A Unique Street Reference Number is assigned to each street.

**VOA or Valuation Office Agency**

Organisation responsible for the compilation of national registers of rateable property.

**XML**

Extensible Markup Language. A flexible way to create common information formats and share both the format and the data on the Internet, Intranets, and elsewhere. XML is extensible because, unlike HTML, the markup tags are unlimited and self-defining. XML is a simpler and easier to use subset of the Standard Generalised Markup Language (SGML), the standard for how to create a document structure.